

The Limit of Turing Theory of the Halting Problem and Gödel Incompleteness Theorems

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1. The Background

Turing halting problem (usually just called as halting problem, which this article would serve to prove improper) and Gödel incompleteness theorems have become lofty elements of nowadays world culture so that we could frequently see their citations in both serious scholastic theses and popular writings in all areas of social life. They have been, along with some other similar theories, the symbols of the enlightenment concerning our self-awareness about the intrinsic defects in our historically-assumed perfect logical system.

However, although those theories are undoubtedly great contributions to humanity, their actual roles in real life practices of either logical thinking or computer-related tasks are far less influential than their reputations stand for. A semantic subtlety behind this global phenomenon is the resemblance between the concept of “the whole set of all” and “all of the whole set”. While both the Turing theory about the halting problem and the Gödel theorems only apply to the whole set, they have been widely and confusingly presented as a general truth that would apply to all members of the relevant set. This article would analyze the reason behind the global misconception about the roles of Turing halting problem and Gödel theorems as well as a whole family of the relevant theories in human civilization.

2. Turing Halting Problem

As a famous computability problem, Turing’s halting problem could be described in different ways, and one simple way in plain English goes like this¹:

The halting problem is the problem of determining, from a description of an arbitrary computer program and an input, whether the program will finish running, or continue to run forever. Alan Turing proved in 1936 that a general algorithm to solve the halting problem for all possible program-input pairs cannot exist.

Despite that the Turing halting problem has been given a great weight by academics not only for the foundation of computer science but also for philosophy in general, and despite that whether a program can finish running normally or be halted infinitively is the one of most common concerns for any professional who would write computer programs and run them on computers, people don’t really use or need the Turing theory of the halting problem for daily practices with computer software and hardware or any other practices in any area except for the teaching and theoretical discussions of the theory itself or other theories with similar nature.

We could sense the weight of the Turing halting problem theory in our civilization through the volume of text that has been devoted to the introduction, demonstration, further proof, and application of the theory in various theoretical fashions, as well as in popular culture including

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Thinking about Godel and Turing Gregory J. Chaitin, 2007 Dr Gregory Chaitin one of the world's leading mathematicians is best known for his discovery of the remarkable number a concrete example of irreducible complexity in pure mathematics which shows that mathematics is infinitely complex In this volume Chaitin discusses the evolution of these ideas tracing them back to Leibniz and Borel as well as Godel and Turing This book contains 23 non technical papers by Chaitin his favorite tutorial and survey papers including Chaitin's three Scientific American articles These essays summarize a lifetime effort to use the notion of program size complexity or algorithmic information content in order to shed further light on the fundamental work of Godel and Turing on the limits of mathematical methods both in logic and in computation Chaitin argues here that his information theoretic approach to metamathematics suggests a quasi empirical view of mathematics that emphasizes the similarities rather than the differences between mathematics and physics He also develops his own brand of digital philosophy which views the entire universe as a giant computation and speculates that perhaps everything is discrete software everything is 0's and 1's Chaitin's fundamental mathematical work will be of interest to philosophers concerned with the limits of knowledge and to physicists interested in the nature of complexity *Thinking About Godel And Turing: Essays On Complexity, 1970-2007* Gregory J Chaitin, 2007-08-06

Dr Gregory Chaitin one of the world's leading mathematicians is best known for his discovery of the remarkable number a concrete example of irreducible complexity in pure mathematics which shows that mathematics is infinitely complex In this volume Chaitin discusses the evolution of these ideas tracing them back to Leibniz and Borel as well as Godel and Turing This book contains 23 non technical papers by Chaitin his favorite tutorial and survey papers including Chaitin's three Scientific American articles These essays summarize a lifetime effort to use the notion of program size complexity or algorithmic information content in order to shed further light on the fundamental work of Godel and Turing on the limits of mathematical methods both in logic and in computation Chaitin argues here that his information theoretic approach to metamathematics suggests a quasi empirical view of mathematics that emphasizes the similarities rather than the differences between mathematics and physics He also develops his own brand of digital philosophy which views the entire universe as a giant computation and speculates that perhaps everything is discrete software everything is 0's and 1's Chaitin's fundamental mathematical work will be of interest to philosophers concerned with the limits of knowledge and to physicists interested in the nature of complexity **Thinking on the Web** H. Peter

Alesso, Craig F. Smith, 2006-09-12 What Is Thinking What is Turing's Test What is Godel's Undecidability Theorem How is Berners Lee's Semantic Web logic going to overcome paradoxes and complexity to produce machine processing on the Web Thinking on the Web draws from the contributions of Tim Berners Lee What is solvable on the Web Kurt Godel What is decidable and Alan Turing What is machine intelligence to evaluate how much intelligence can be projected onto the Web The authors offer both abstract and practical perspectives to delineate the opportunities and challenges of a smarter Web

through a threaded series of vignettes and a thorough review of Semantic Web development *Thinking On The Web: Berners-Lee, Godel And Turing* H. P. Alesso, Craig Forsythe Smith, 2009-11-10 This book creates a vision of how solvable problems can be logically addressed on the Web to produce a semblance of machine intelligence The unique advantage of this book is that while it addresses these sophisticated AI concepts for the Web it presents the material at a level appropriate for the general tech savvy audience It also offers professional Web and software developers insight into the next generation Web architectures and AI technologies The professional access to tools software and demos that enriches the book s presentations and which would be too advanced for the layman Professionals will also benefit through the insights of connecting multiple AI concepts over the breath of coverage and gaining an appreciation of which AI areas are worthwhile to pursue Part II Web Ontology and Logic Part I What is Web Intelligence

Information And Computation: Essays On Scientific And Philosophical Understanding Of Foundations Of Information And Computation Gordana

Dodig-crnkovic, Mark Burgin, 2011-06-10 Information is a basic structure of the world while computation is a process of the dynamic change of information This book provides a cutting edge view of world s leading authorities in fields where information and computation play a central role It sketches the contours of the future landscape for the development of our understanding of information and computation their mutual relationship and the role in cognition informatics biology artificial intelligence and information technology This book is an utterly enjoyable and engaging read which gives readers an opportunity to understand and relate phenomena seemingly unrelated in a completely new light especially the connections between information computation cognition and life Turing's Cathedral George Dyson, 2012-12-11 A Wall Street Journal Best Business Book of 2012 A Kirkus Reviews Best Book of 2012 In this revealing account of how the digital universe exploded in the aftermath of World War II George Dyson illuminates the nature of digital computers the lives of those who brought them into existence and how code took over the world In the 1940s and 50s a small group of men and women led by John von Neumann gathered in Princeton New Jersey to begin building one of the first computers to realize Alan Turing s vision of a Universal Machine The codes unleashed within this embryonic 5 kilobyte universe less memory than is allocated to displaying a single icon on a computer screen today broke the distinction between numbers that mean things and numbers that do things and our universe would never be the same Turing s Cathedral is the story of how the most constructive and most destructive of twentieth century inventions the digital computer and the hydrogen bomb emerged at the same time

Shadows of the Mind Roger Penrose, 1994 Presents the author s thesis that consciousness in its manifestation in the human quality of understanding is doing something that mere computation cannot and attempts to understand how such non computational action might arise within scientifically comprehensive physical laws *An Introduction to Gödel's Theorems* Peter Smith, 2007-07-26 In 1931 the young Kurt G del published his First Incompleteness Theorem which tells us that for any sufficiently rich theory of arithmetic there are some arithmetical truths the theory cannot prove This remarkable result is

among the most intriguing and most misunderstood in logic Gödel also outlined an equally significant Second Incompleteness Theorem How are these Theorems established and why do they matter Peter Smith answers these questions by presenting an unusual variety of proofs for the First Theorem showing how to prove the Second Theorem and exploring a family of related results including some not easily available elsewhere The formal explanations are interwoven with discussions of the wider significance of the two Theorems This book will be accessible to philosophy students with a limited formal background It is equally suitable for mathematics students taking a first course in mathematical logic

Kurt Gödel and the Foundations of Mathematics Matthias Baaz, Christos H. Papadimitriou, Hilary W. Putnam, Dana S. Scott, Charles L. Harper, Jr, 2011-06-06 This volume commemorates the life work and foundational views of Kurt Gödel 1906-78 most famous for his hallmark works on the completeness of first order logic the incompleteness of number theory and the consistency with the other widely accepted axioms of set theory of the axiom of choice and of the generalized continuum hypothesis It explores current research advances and ideas for future directions not only in the foundations of mathematics and logic but also in the fields of computer science artificial intelligence physics cosmology philosophy theology and the history of science The discussion is supplemented by personal reflections from several scholars who knew Gödel personally providing some interesting insights into his life By putting his ideas and life's work into the context of current thinking and perceptions this book will extend the impact of Gödel's fundamental work in mathematics logic philosophy and other disciplines for future generations of researchers

Publications 1929-1936 Kurt Gödel, 1986

International Handbook of Thinking and Reasoning Linden J. Ball, Valerie A. Thompson, 2017-11-14 The Routledge International Handbook of Thinking and Reasoning is an authoritative reference work providing a balanced overview of current scholarship spanning the full breadth of the rapidly developing and expanding field of thinking and reasoning It contains 35 chapters written by leading international researchers covering foundational issues as well as state of the art developments in thinking and reasoning research Topics covered range across all sub areas of thinking and reasoning including deduction induction abduction judgment decision making argumentation problem solving expertise creativity and rationality The contributors engage with cutting edge debates such as the status of dual process theories of thinking the role of unconscious intuitive emotional and metacognitive processes in thinking and the importance of probabilistic conceptualisations of thinking and reasoning Authors also examine the importance of neuroscientific findings in informing theoretical developments and explore the situated nature of thinking and reasoning across a range of real world contexts such as mathematics medicine and science The Handbook provides a clear sense of the way in which contemporary ideas are challenging traditional viewpoints as new paradigm of the psychology of reasoning emerges This paradigm shifting research is paving the way toward a richer and more inclusive understanding of thinking and reasoning where important new questions drive a forward looking research agenda It is essential reading for both established researchers in the field of thinking and reasoning as well as advanced students wishing

to learn more about both the historical foundations and latest developments in this rapidly growing field **Gödel, Tarski and the Lure of Natural Language** Juliette Kennedy, 2020-12-17 Is mathematics entangled with its various formalisations Or are the central concepts of mathematics largely insensitive to formalisation or formalism free What is the semantic point of view and how is it implemented in foundational practice Does a given semantic framework always have an implicit syntax Inspired by what she calls the natural language moves of Gödel and Tarski Juliette Kennedy considers what roles the concepts of entanglement and formalism freeness play in a range of logical settings from computability and set theory to model theory and second order logic to logicity developing an entirely original philosophy of mathematics along the way The treatment is historically logically and set theoretically rich and topics such as naturalism and foundations receive their due but now with a new twist **Essential Computational Thinking** Ricky J. Sethi, 2020-06-17 Essential Computational Thinking Computer Science from Scratch helps students build a theoretical and practical foundation for learning computer science Rooted in fundamental science this text defines elementary ideas including data and information quantifies these ideas mathematically and through key concepts in physics and computation demonstrates the relationship between computer science and the universe itself In Part I students explore the theoretical underpinnings of computer science in a wide ranging manner Readers receive a robust overview of essential computational theories and programming ideas as well as topics that examine the mathematical and physical foundations of computer science Part 2 presents the basics of computation and underscores programming as an invaluable tool in the discipline Students can apply their newfound knowledge and begin writing substantial programs immediately Finally Part 3 explores more sophisticated computational ideas including object oriented programming databases data science and some of the underlying principles of machine learning Essential Computational Thinking is an ideal text for a firmly technical CS0 course in computer science It is also a valuable resource for highly motivated non computer science majors at the undergraduate or graduate level who are interested in learning more about the discipline for either professional or personal development Machine Dreams Philip Mirowski, 2002 This is the first cross over book into the history of science written by an historian of economics It shows how history of technology can be integrated with the history of economic ideas The analysis combines Cold War history with the history of postwar economics in America and later elsewhere revealing that the Pax Americana had much to do with abstruse and formal doctrines such as linear programming and game theory It links the literature on cyborg to economics an element missing in literature to date The treatment further calls into question the idea that economics has been immune to postmodern currents arguing that neoclassical economics has participated in the deconstruction of the integral self Finally it argues for an alliance of computational and institutional themes and challenges the widespread impression that there is nothing else besides American neoclassical economic theory left standing after the demise of Marxism **The ^AOxford Handbook of Philosophy of Technology** Shannon Vallor, 2022-02-01 The Oxford Handbook of Philosophy of Technology gives readers a

view into this increasingly vital and urgently needed domain of philosophical understanding offering an in depth collection of leading and emerging voices in the philosophy of technology The thirty two contributions in this volume cut across and connect diverse philosophical traditions methodologies and subfields providing the reader with provocative and original insights on the history concepts problems and challenges that mark humanity s attempts to attain deeper and more lasting wisdom about our complex and evolving relationship to technology

Gödel's Disjunction Leon Horsten, Philip Welch, 2016-09-08 The logician Kurt Gödel in 1951 established a disjunctive thesis about the scope and limits of mathematical knowledge either the mathematical mind is not equivalent to a Turing machine i e a computer or there are absolutely undecidable mathematical problems In the second half of the twentieth century attempts have been made to arrive at a stronger conclusion In particular arguments have been produced by the philosopher J R Lucas and by the physicist and mathematician Roger Penrose that intend to show that the mathematical mind is more powerful than any computer These arguments and counterarguments to them have not convinced the logical and philosophical community The reason for this is an insufficiency of rigour in the debate The contributions in this volume move the debate forward by formulating rigorous frameworks and formally spelling out and evaluating arguments that bear on Gödel's disjunction in these frameworks The contributions in this volume have been written by world leading experts in the field

The Proof Stage Stephen Abbott, 2023-07-11 How playwrights from Alfred Jarry and Samuel Beckett to Tom Stoppard and Simon McBurney brought the power of mathematics to life on the stage The discovery of alternate geometries paradoxes of the infinite incompleteness and chaos theory revealed that despite its reputation for certainty mathematical truth is not immutable perfect or even perfectible Beginning in the last century a handful of adventurous playwrights took inspiration from the fractures of modern mathematics to expand their own artistic boundaries Originating in the early avant garde mathematics infused theater reached a popular apex in Tom Stoppard's 1993 play *Arcadia* In *The Proof Stage* mathematician Stephen Abbott explores this unlikely collaboration of theater and mathematics He probes the impact of mathematics on such influential writers as Alfred Jarry Samuel Beckett Bertolt Brecht and Stoppard and delves into the life and mathematics of Alan Turing as they are rendered onstage The result is an unexpected story about the mutually illuminating relationship between proofs and plays from Euclid and Euripides to Gödel and *Godot* Theater is uniquely poised to discover the soulful human truths embedded in the austere theorems of mathematics but this is a difficult feat It took Stoppard twenty five years of experimenting with the creative possibilities of mathematics before he succeeded in making fractal geometry and chaos theory integral to *Arcadia* s emotional arc In addition to charting Stoppard's journey Abbott examines the post *Arcadia* wave of ambitious works by Michael Frayn David Auburn Simon McBurney Snoo Wilson John Mighton and others Collectively these gifted playwrights transform the great philosophical upheavals of mathematics into profound and sometimes poignant revelations about the human journey

Gödel's Theorems - Proceedings Of The First International Symposium Z W Wolkowski, 1993-02-04 The

proceedings publishes research results on the following disciplines philosophy and epistemology history and philosophy of science mathematics logic and computer science social sciences linguistics cognitive sciences artificial intelligence general systems and operational research

The Practical Intellect Bo Göransson, 2013-03-14 The intention of this book is not to add another technical work to the series of publications already available on matters connected with the relations between natural and artificial intelligence nor to repeat the positions already well expressed in for example the debate between John Searle Daniel Dennet and Hubert Dreyfus It is an attempt to encourage philosophical reflection on dimensions of the subject that have hitherto been somewhat neglected This book which explores a number of case studies is the fifth in the series the previous four books being i Knowledge Skill and Artificial Intelligence Bo Göransson and Ingela Josefson Eds Springer Verlag London 1988 ii Artificial Intelligence Culture and Language On Education and Work Bo Göransson and Magnus Florin Eds Springer Verlag London 1990 iii Dialogue and Technology Art and Knowledge Bo Göransson and Magnus Florin Eds Springer Verlag London 1991 iv Skill and Education Reflection and Experience Bo Göransson and Magnus Florin Eds Springer Verlag London 1992 An important connection between these four books is the conference on Culture Language and Artificial Intelligence held in Stockholm in May June 1988 The conference was attended by more than 300 researchers and practitioners from over 15 countries in the fields of technology philosophy the history of ideas literature and linguistics Contributions to the books were solicited from among those who attended the conference and from researchers involved in work related to its aim

Finite Versus Infinite Cristian S. Calude, Gheorghe Paun, 2012-12-06 The finite infinite interplay is central in human thinking from ancient philosophers and mathematicians Zeno Pythagoras to modern mathematics Cantor Hilbert and computer science Turing Godel Recent developments in mathematics and computer science suggest a radically new answers to classical questions e g does infinity exist where does infinity come from how to reconcile the finiteness of the human brain with the infinity of ideas it produces b new questions of debate e g what is the role played by randomness are computers capable of handling the infinity through unconventional media of computation how can one approximate efficiently the finite by the infinite and conversely the infinite by finite Distinguished authors from around the world many of them architects of the mathematics and computer science for the new century contribute to the volume Papers are as varied as Professor Marcus activity to whom this volume is dedicated They range from real analysis to DNA computing from linguistics to logic from combinatorics on words to symbolic dynamics from automata theory to geography and so on plus an incursion into the old history of conceptions about infinity and a list of philosophical open problems They are mainly mathematical and theoretical computer science texts but not all of them are purely mathematical

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